

FIG. 1

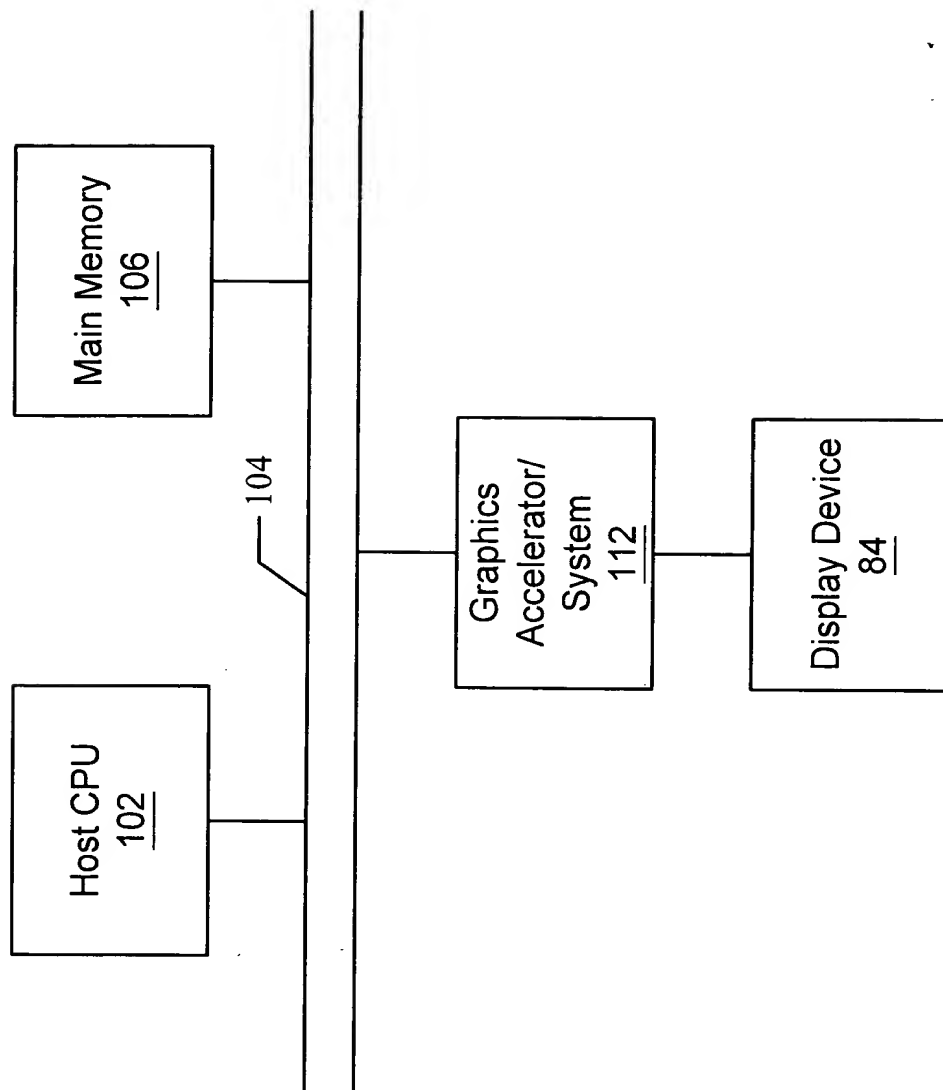


FIG. 2

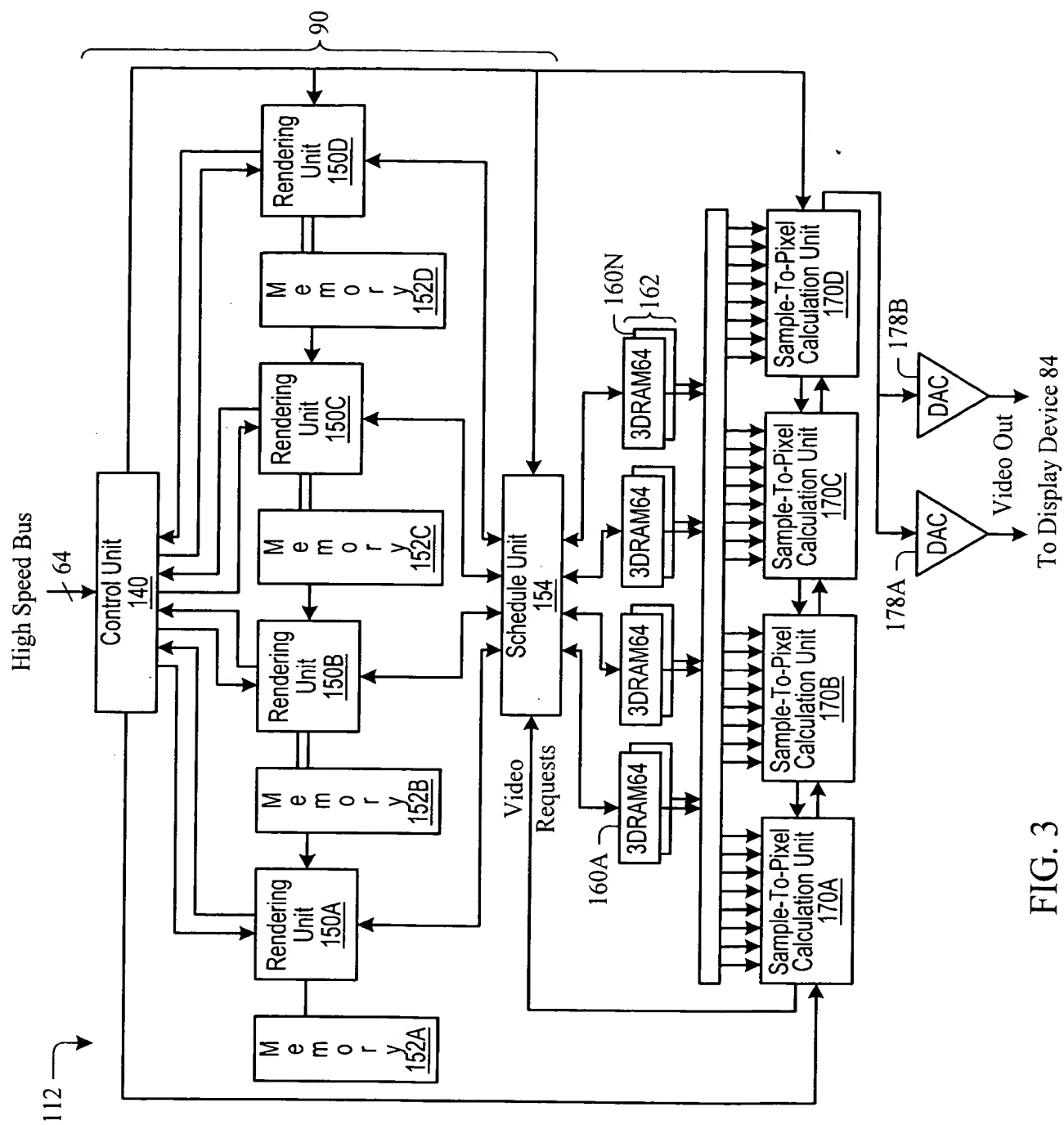


FIG. 3

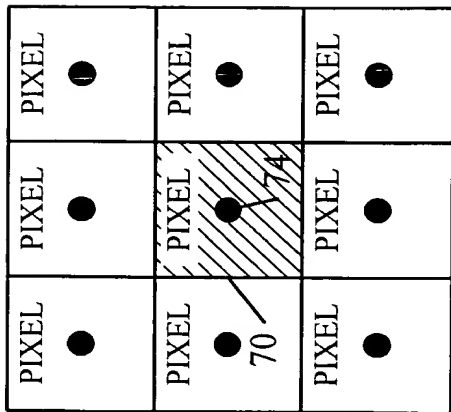


FIG. 4

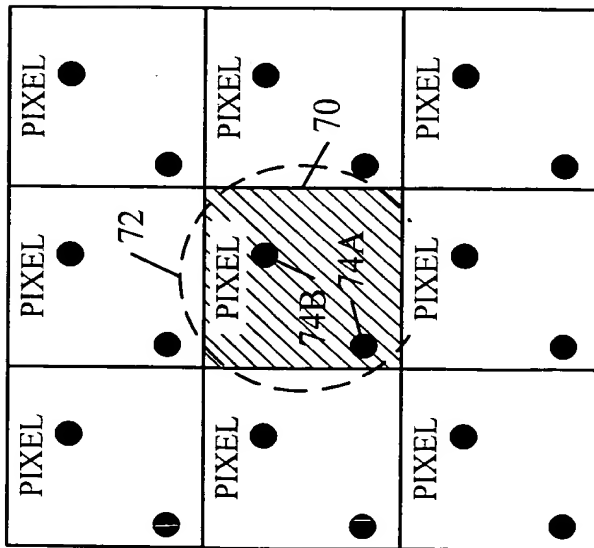


FIG. 5A

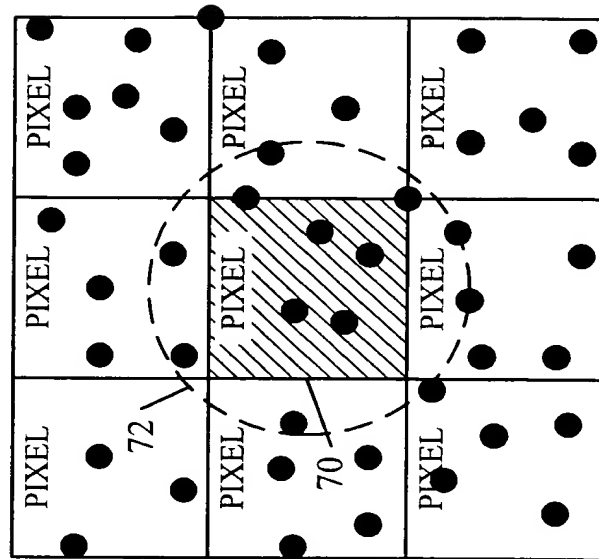


FIG. 5B

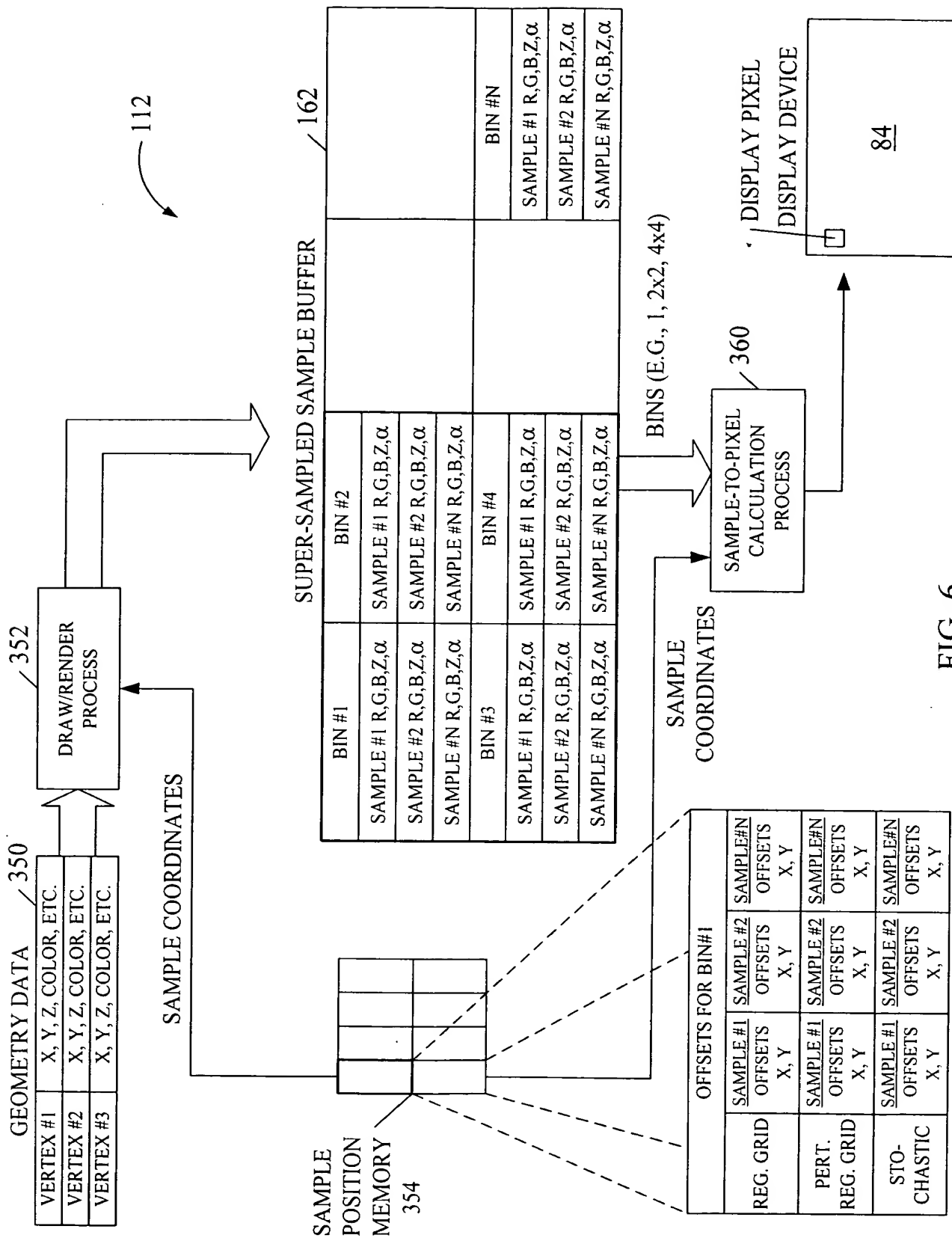


FIG. 6

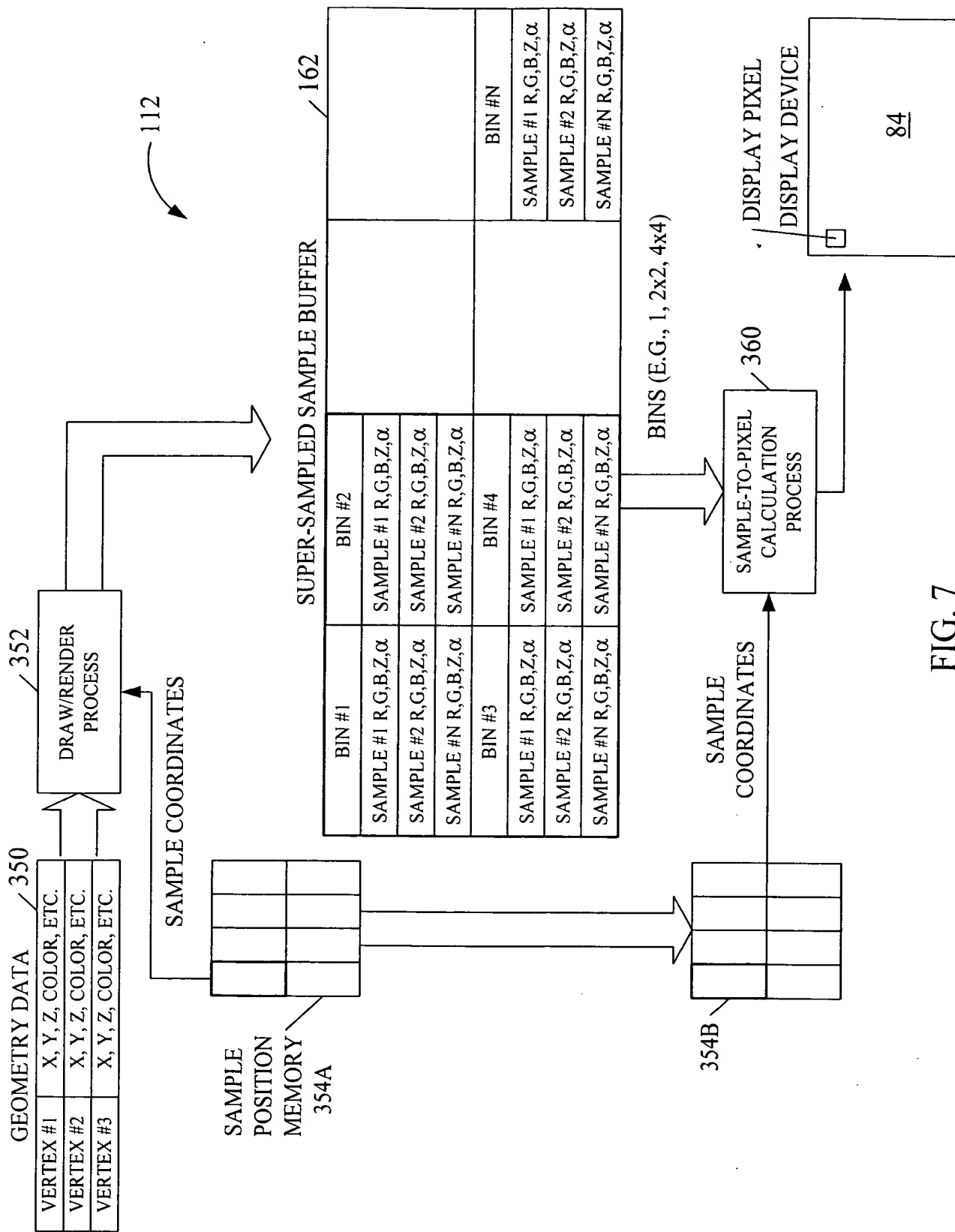
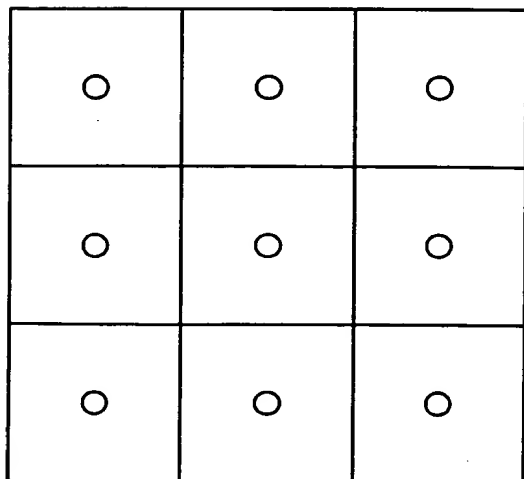
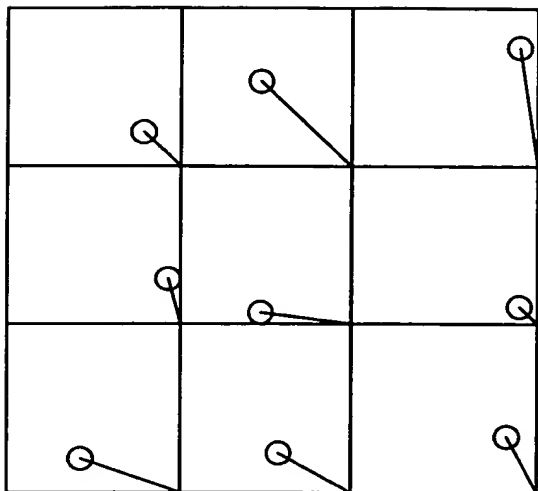


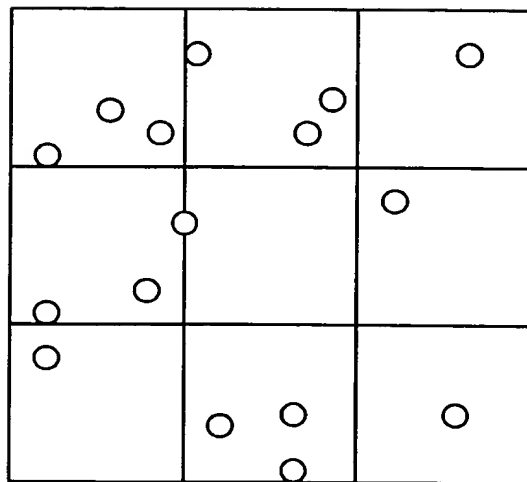
FIG. 7



REGULAR GRID 190



PERTURBED  
REGULAR GRID  
192



194 STOCHASTIC  
SPACING

FIG. 8

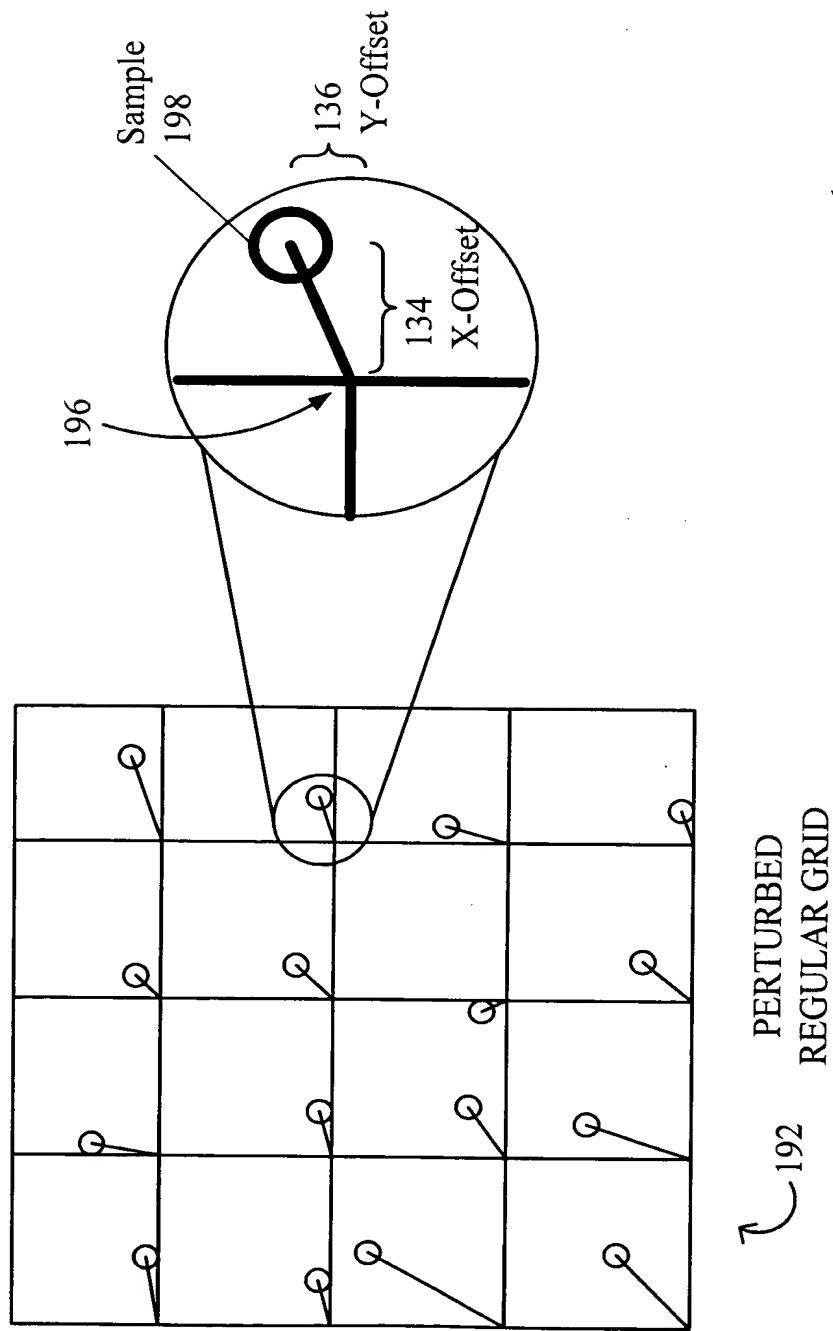


FIG. 9



PERTURBED  
REGULAR GRID

192

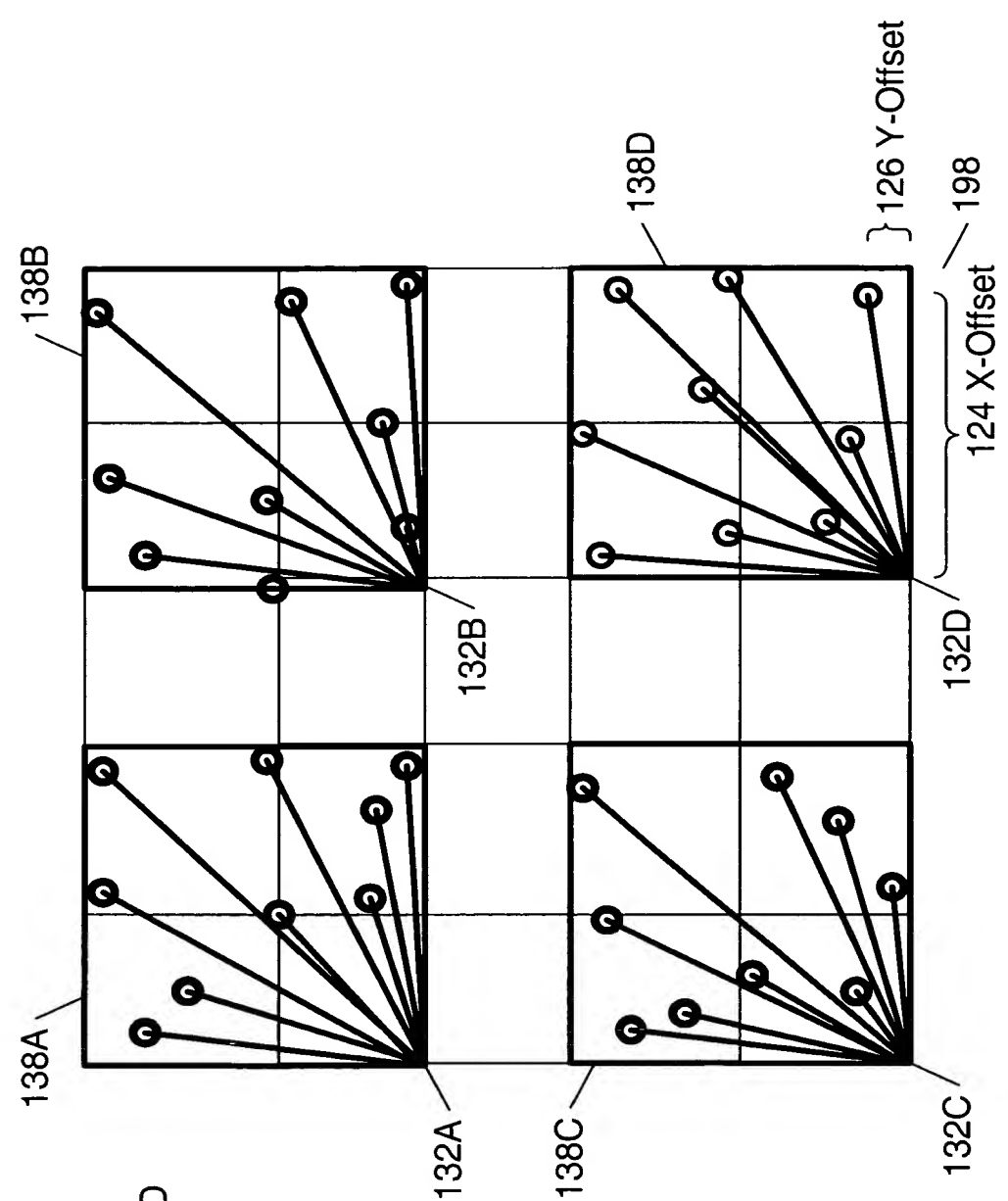


FIG. 10

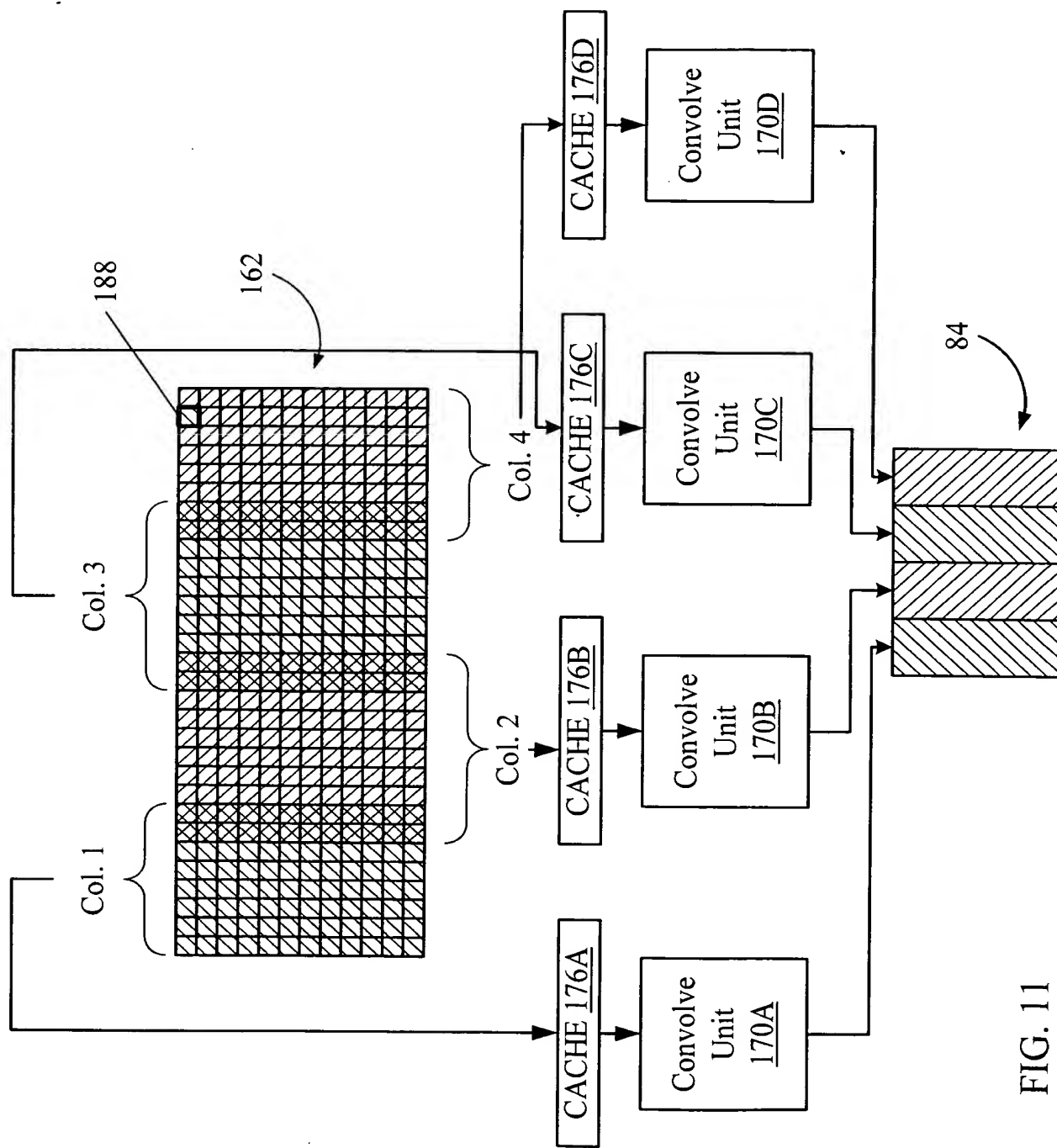


FIG. 11

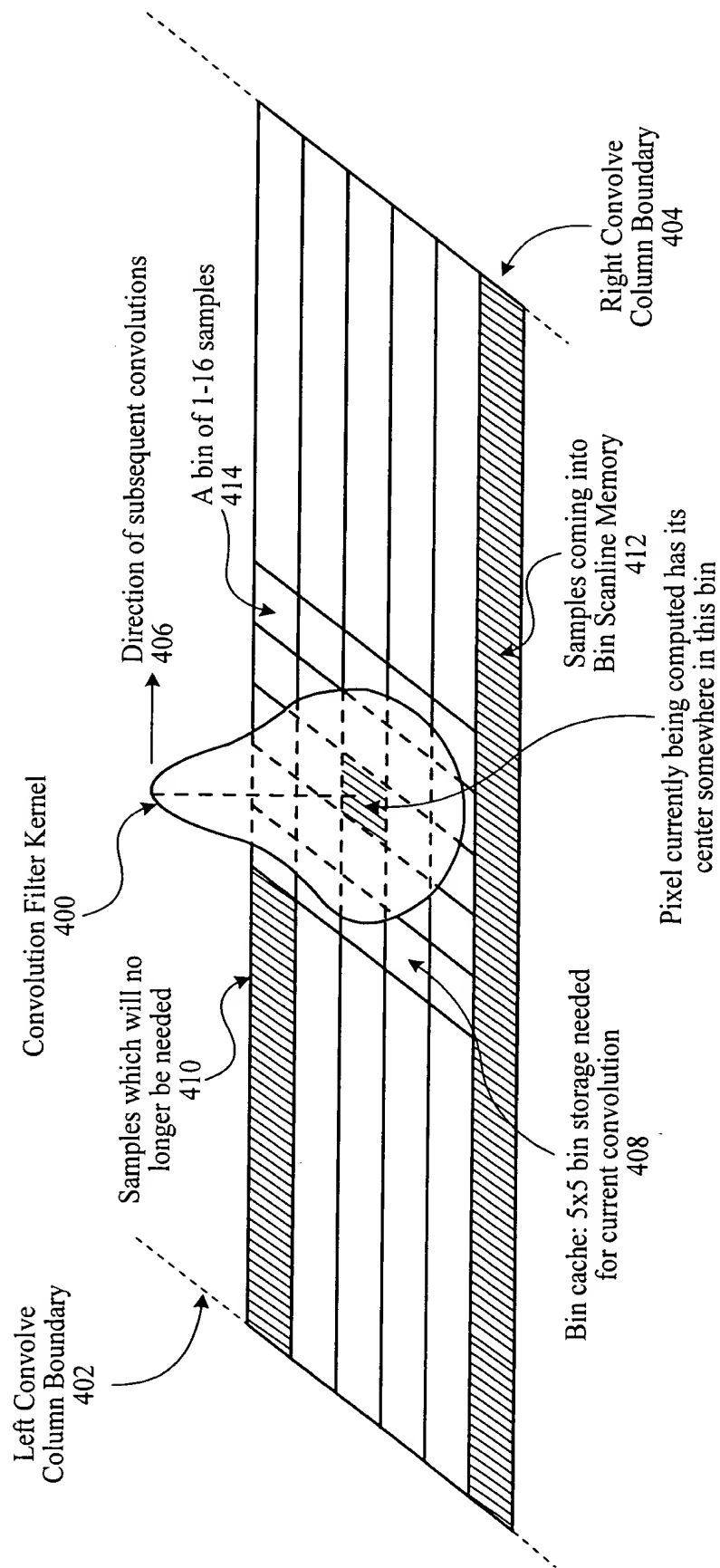


FIG. 11A

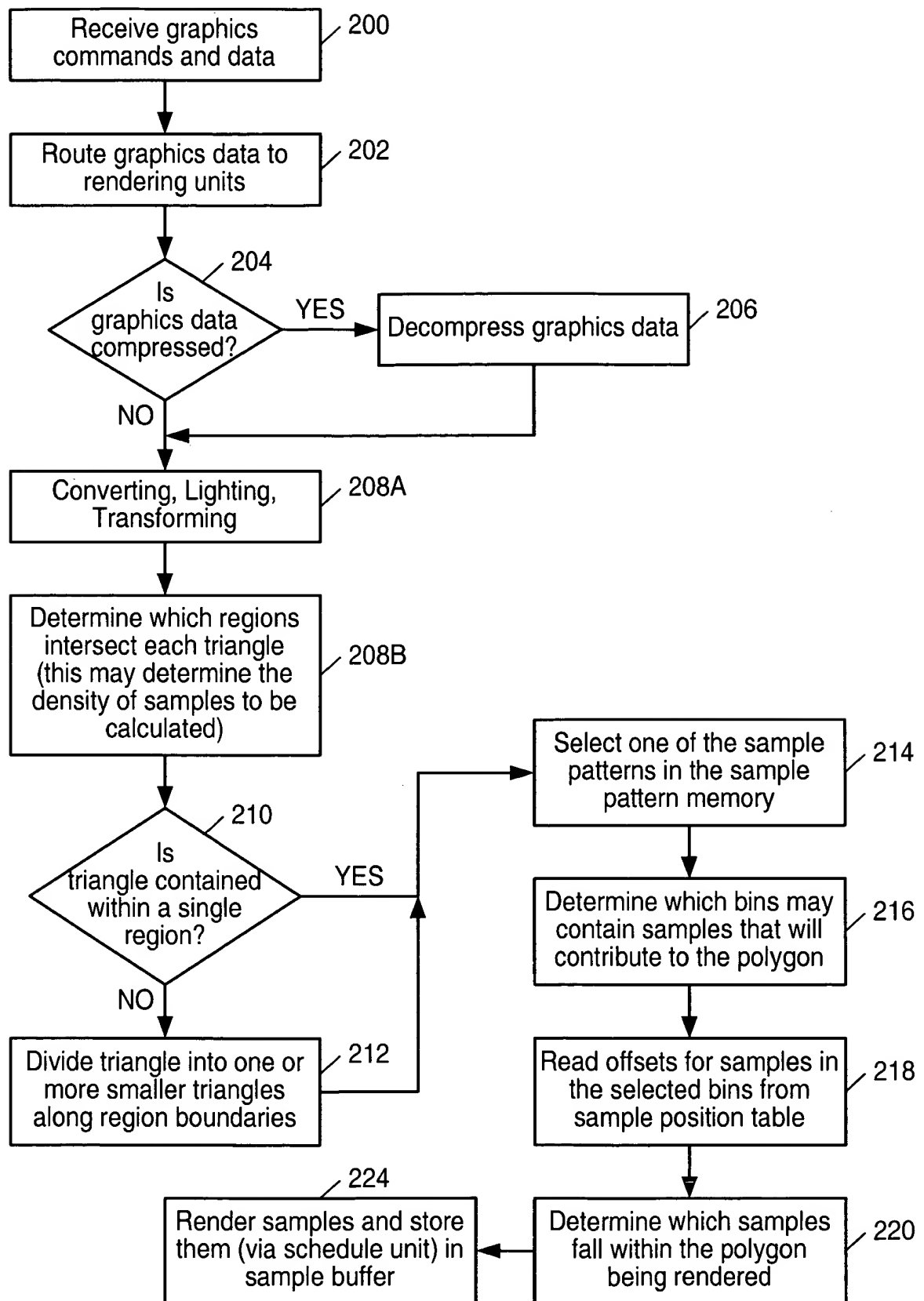


FIG. 12

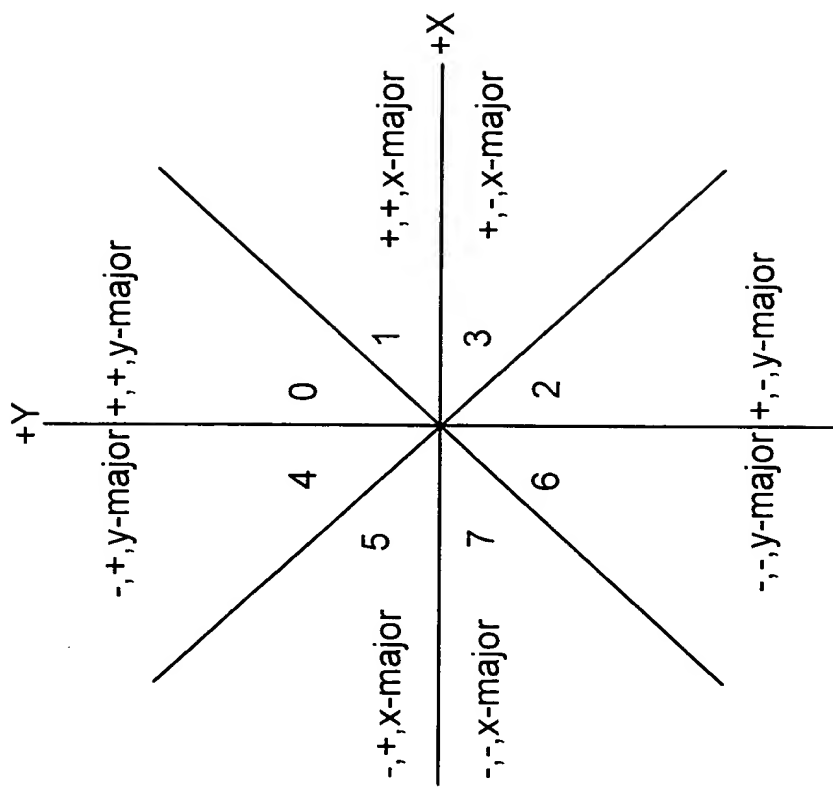


FIG. 12A

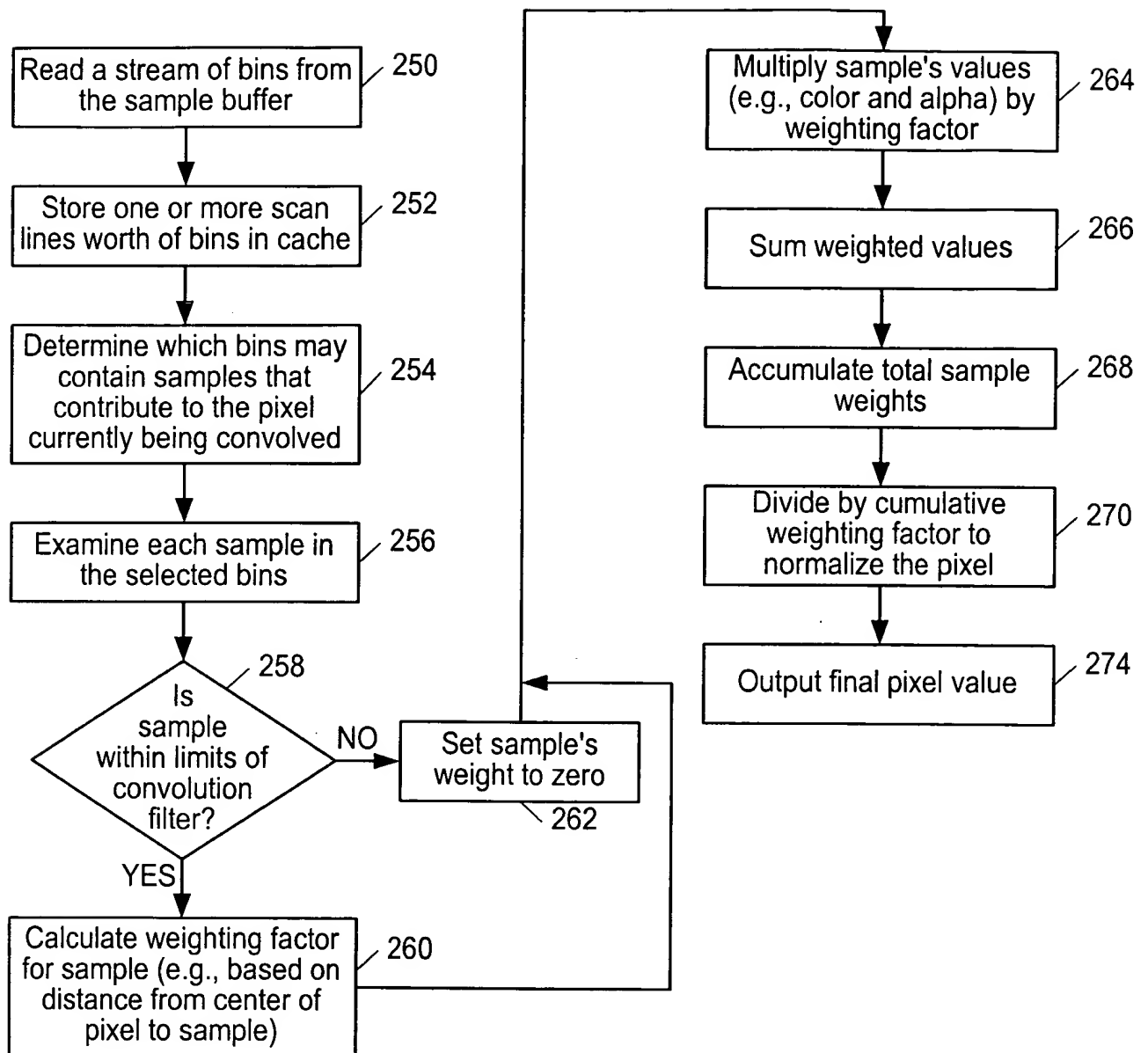
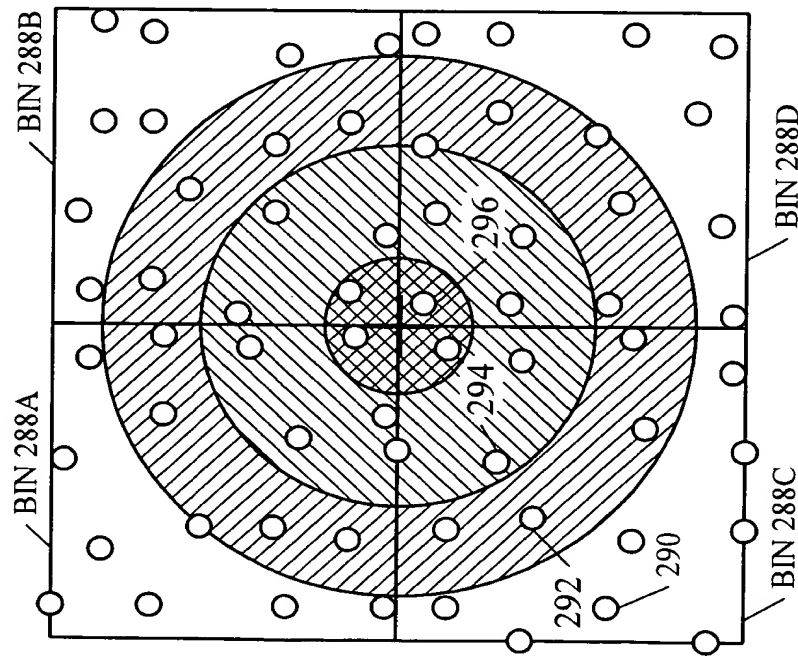
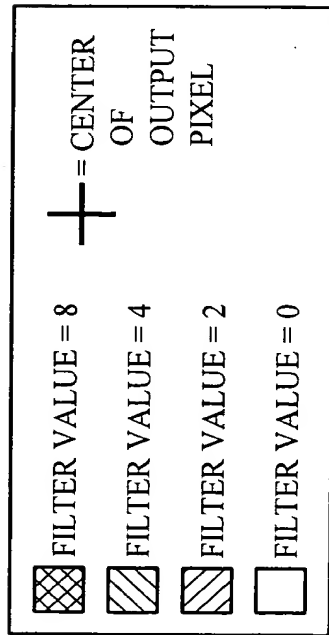


FIG. 13



<p>300</p> <p>Sample 190</p> <p>R = 120    FILTER VALUE = 0</p> <p>G = 200</p> <p>B = 40</p> <p>A = 150</p>	<p>310</p> <p>UNNORMALIZED OUTPUT PIXEL</p> <p>R = 120*0 +140*2 +150*4 +140*8 = 2000</p> <p>G = 200*0 +180*2 +170*4 +170*8 = 2400</p> <p>B = 40*0 +50*2 +50*4 +60*8 = 780</p> <p>A = 150*0 +160*2 +180*4 +190*8 = 2560</p>
<p>302</p> <p>Sample 192</p> <p>R = 140    FILTER VALUE = 2</p> <p>G = 180</p> <p>B = 50</p> <p>A = 160</p>	<p>312</p> <p>NORMALIZED OUTPUT PIXEL</p> <p>R = 2000 / 14 = 142.9</p> <p>G = 2400 / 14 = 171.4</p> <p>B = 780 / 14 = 55.7</p> <p>A = 2560 / 14 = 175.7</p>
<p>304</p> <p>Sample 194</p> <p>R = 150    FILTER VALUE = 4</p> <p>G = 170</p> <p>B = 50</p> <p>A = 180</p>	
<p>306</p> <p>Sample 196</p> <p>R = 140    FILTER VALUE = 8</p> <p>G = 170</p> <p>B = 60</p> <p>A = 190</p>	
<p>308</p> <p>NORMALIZATION</p> <p>VALUE = 0+2+4+8 = 14</p>	

FIG. 14

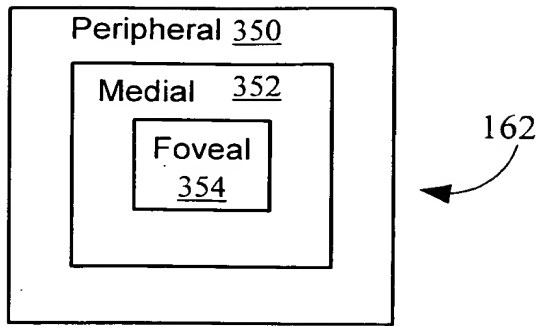


FIG. 15

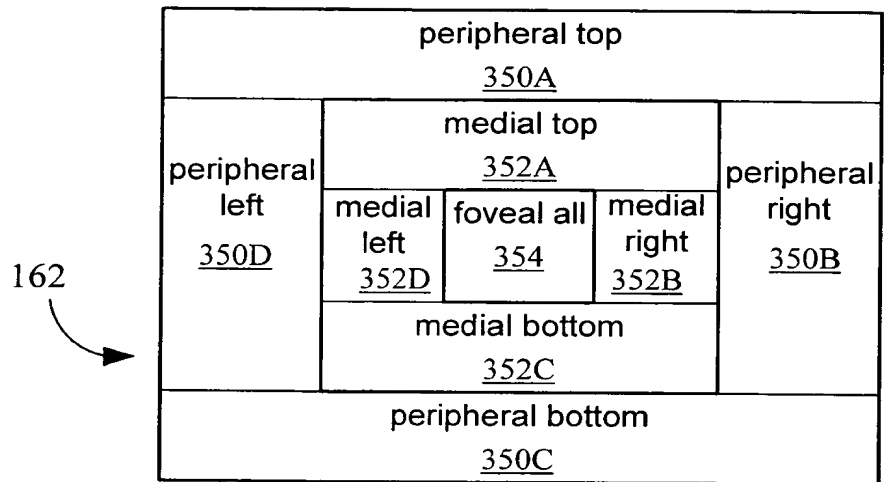


FIG. 16

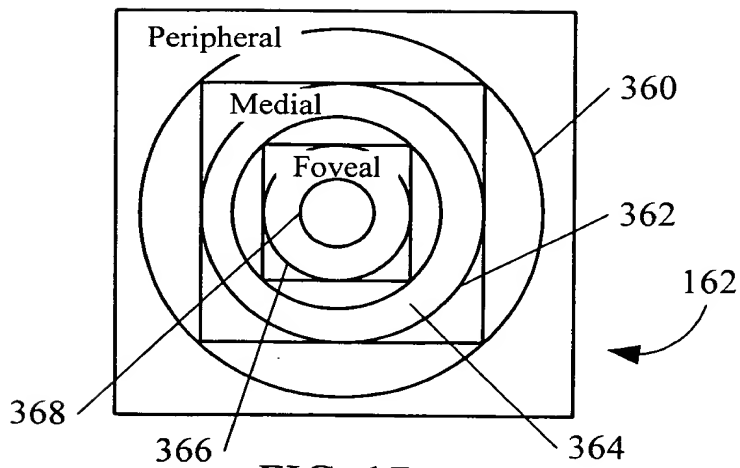
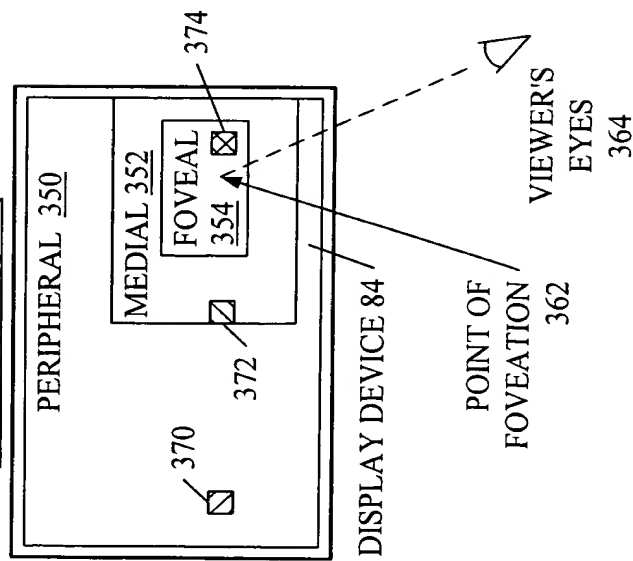


FIG. 17

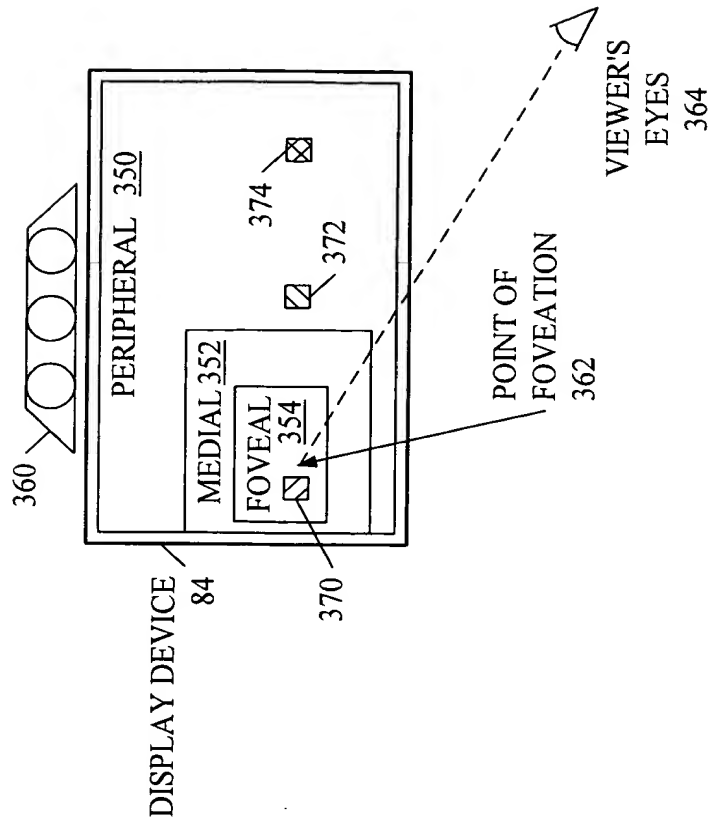


EYE OR HEAD TRACKING  
DEVICE 360



- ☒ FOVEAL REGION = 8 SAMPLES PER BIN  
CONVOLUTION RADIUS TOUCHES 4 BINS  
TOTAL = 32 SAMPLES MAY CONTRIBUTE
- ☐ MEDIAL REGION = 4 SAMPLES PER BIN  
CONVOLUTION RADIUS TOUCHES 4 BINS  
TOTAL = 16 SAMPLES MAY CONTRIBUTE
- ☐ PERIPHERAL REGION = 1 SAMPLE PER BIN  
CONVOLUTION RADIUS TOUCHES 1 BIN  
TOTAL = 1 SAMPLE MAY CONTRIBUTE

FIG. 18A



- ☒ PERIPHERAL REGION = 1 SAMPLE PER BIN  
CONVOLUTION RADIUS TOUCHES 1 BIN  
TOTAL = 1 SAMPLE MAY CONTRIBUTE
- ☐ PERIPHERAL REGION = 1 SAMPLE PER BIN  
CONVOLUTION RADIUS TOUCHES 1 BINS  
TOTAL = 1 SAMPLE MAY CONTRIBUTE
- ☐ FOVEAL REGION = 8 SAMPLES PER BIN  
CONVOLUTION RADIUS TOUCHES 4 BIN  
TOTAL = 32 SAMPLE MAY CONTRIBUTE

FIG. 18B

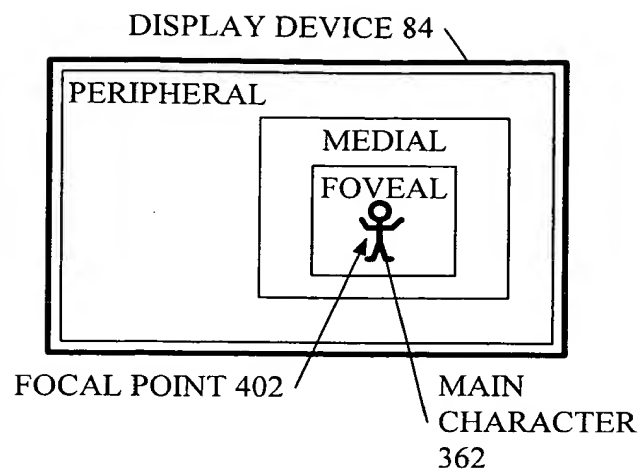


FIG. 19A

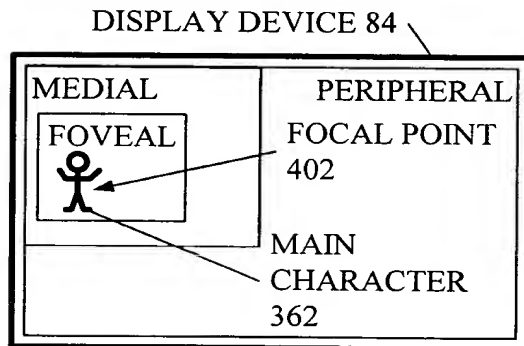


FIG. 19B

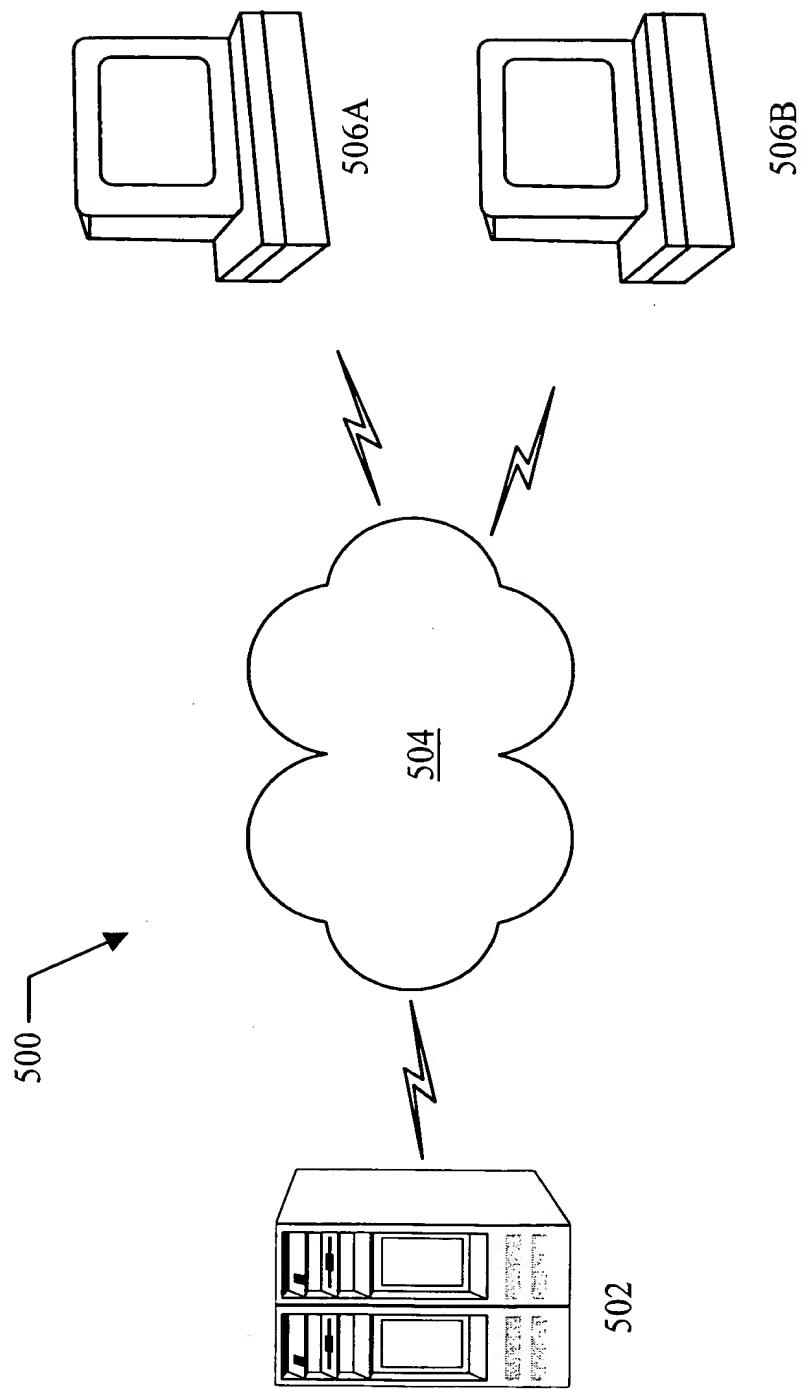


FIG. 20

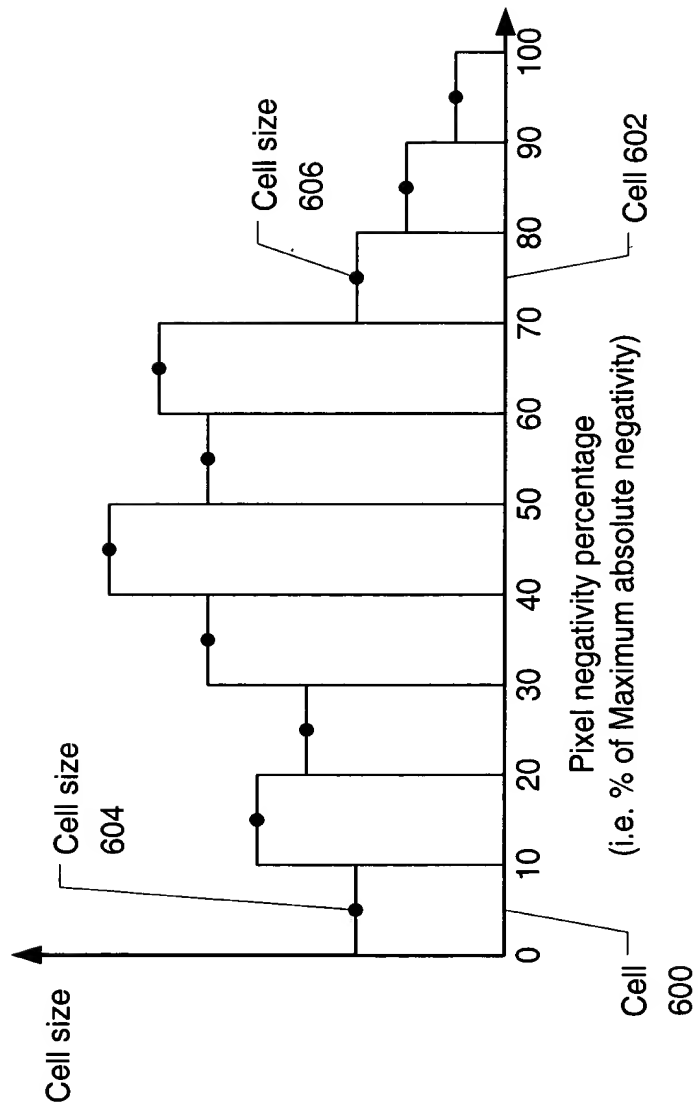
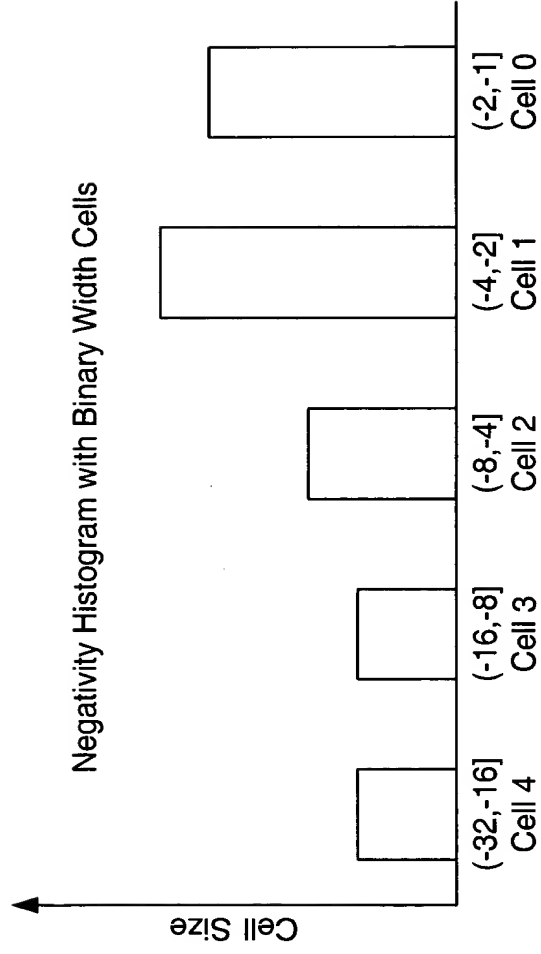


Figure 21



Each Cell defined by a ranges of pixel negativity values of the form (A,B]

Fig. 22

Fig. 23A Truncated Sinc Filter

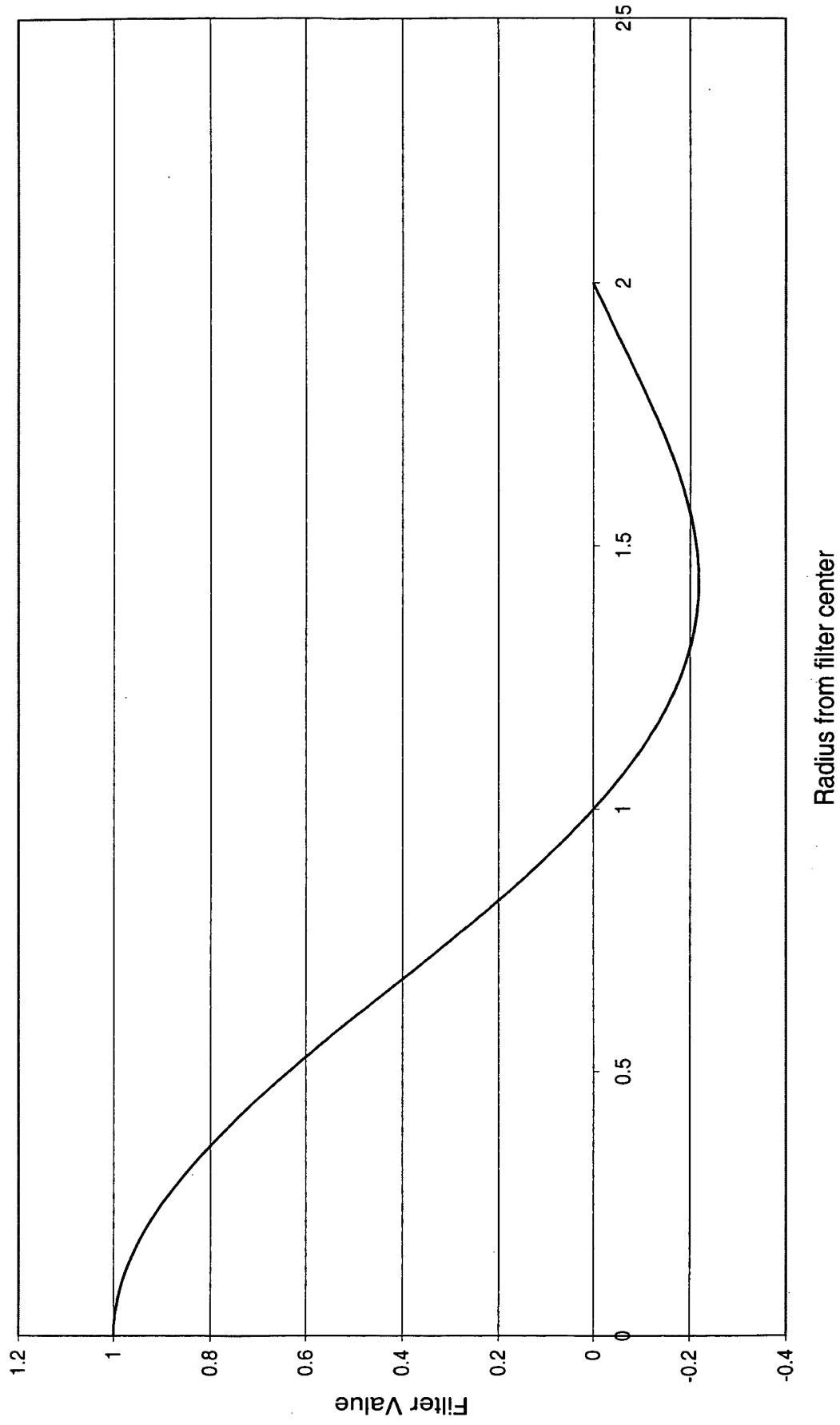


Fig. 23B Catmull-Rom Filter

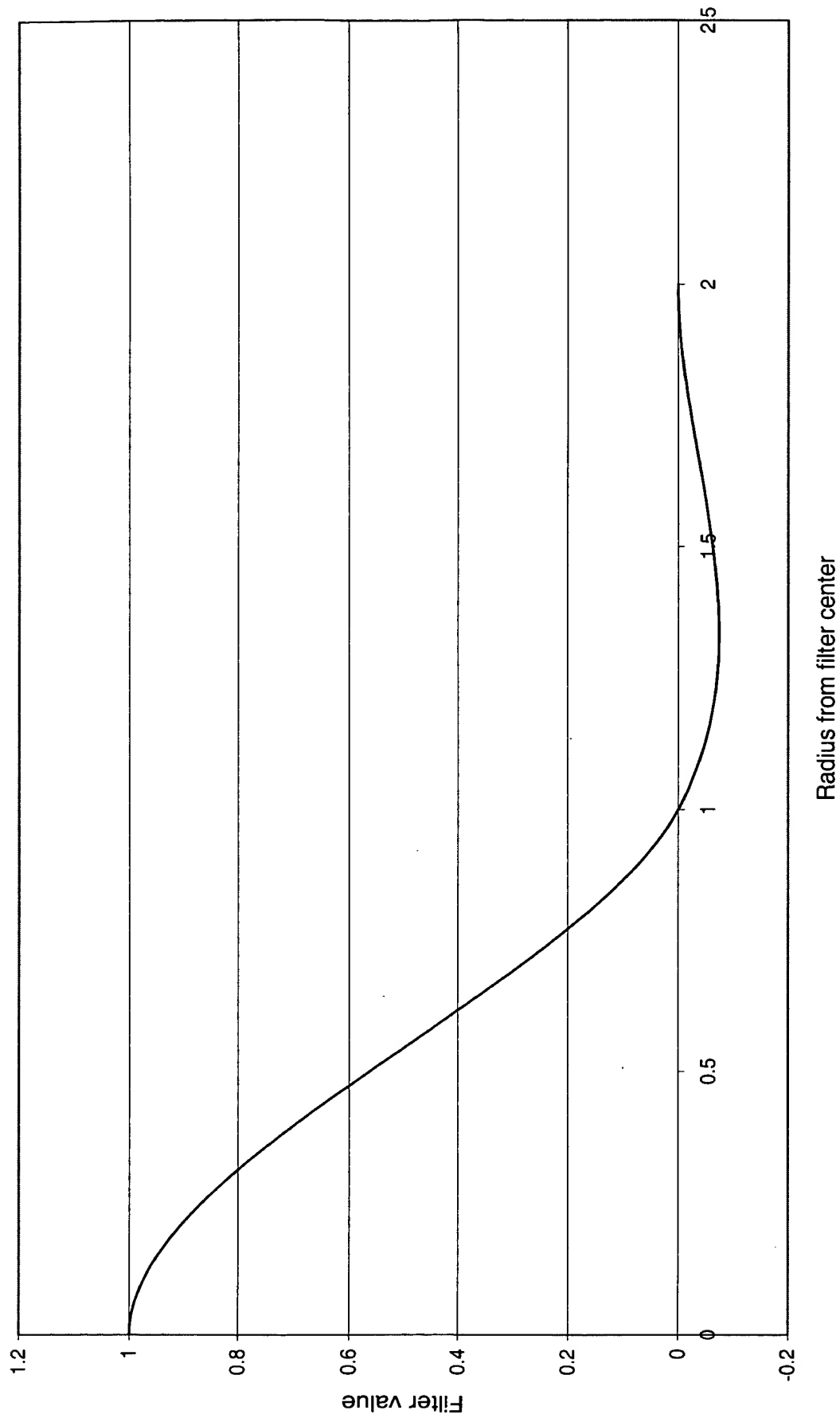
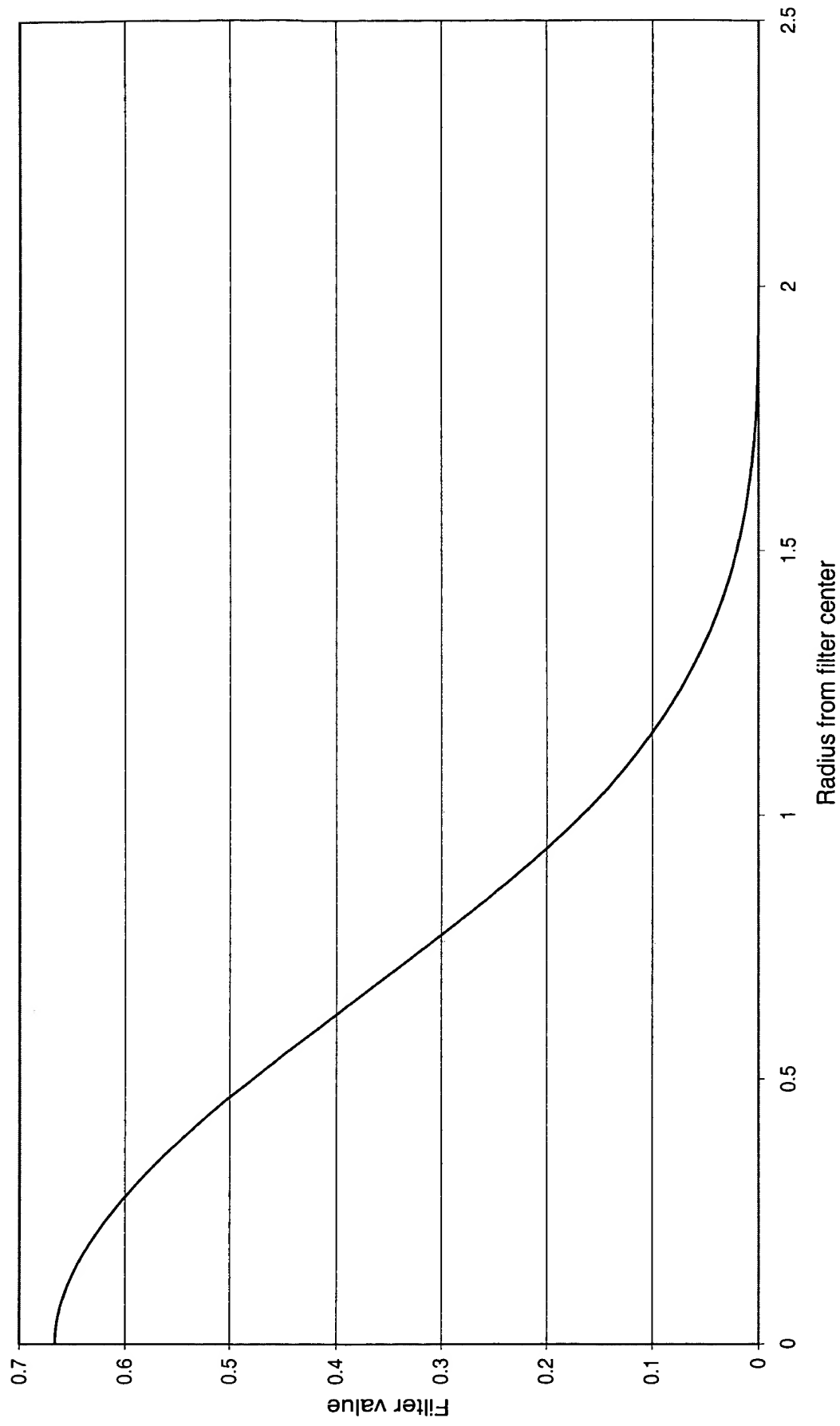


Fig. 23C Cubic B-Spline





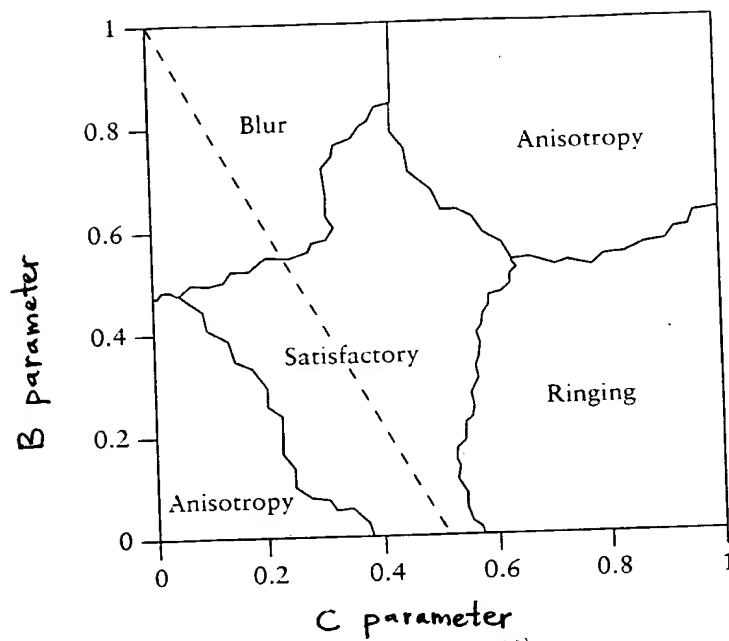
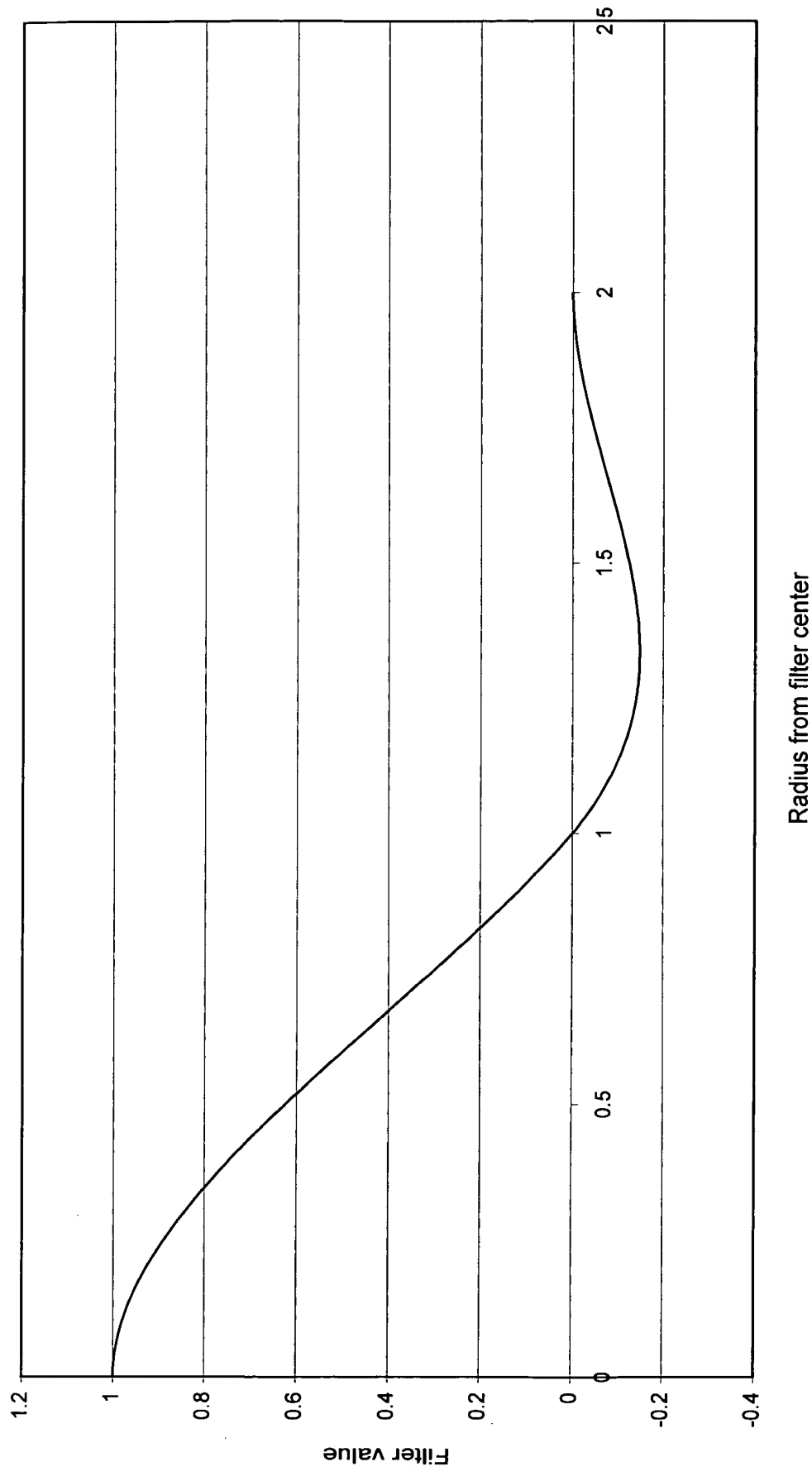
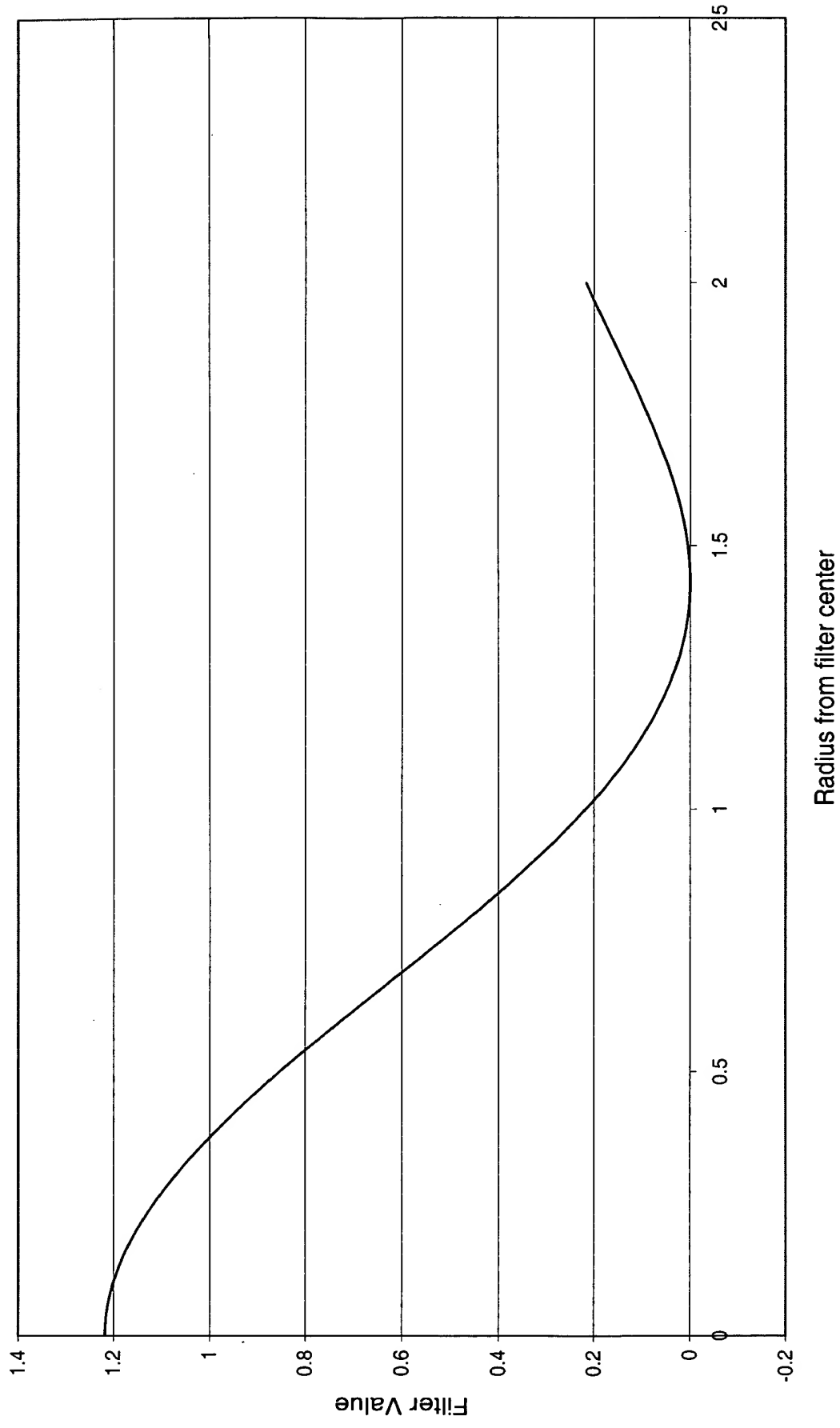


Fig. 23D

Fig. 23E Cardinal cubic spline,  
i.e. Mitchell-Netravali filter (0,1)



**Fig. 24 Upward Shifted and Truncated Sinc Filter**



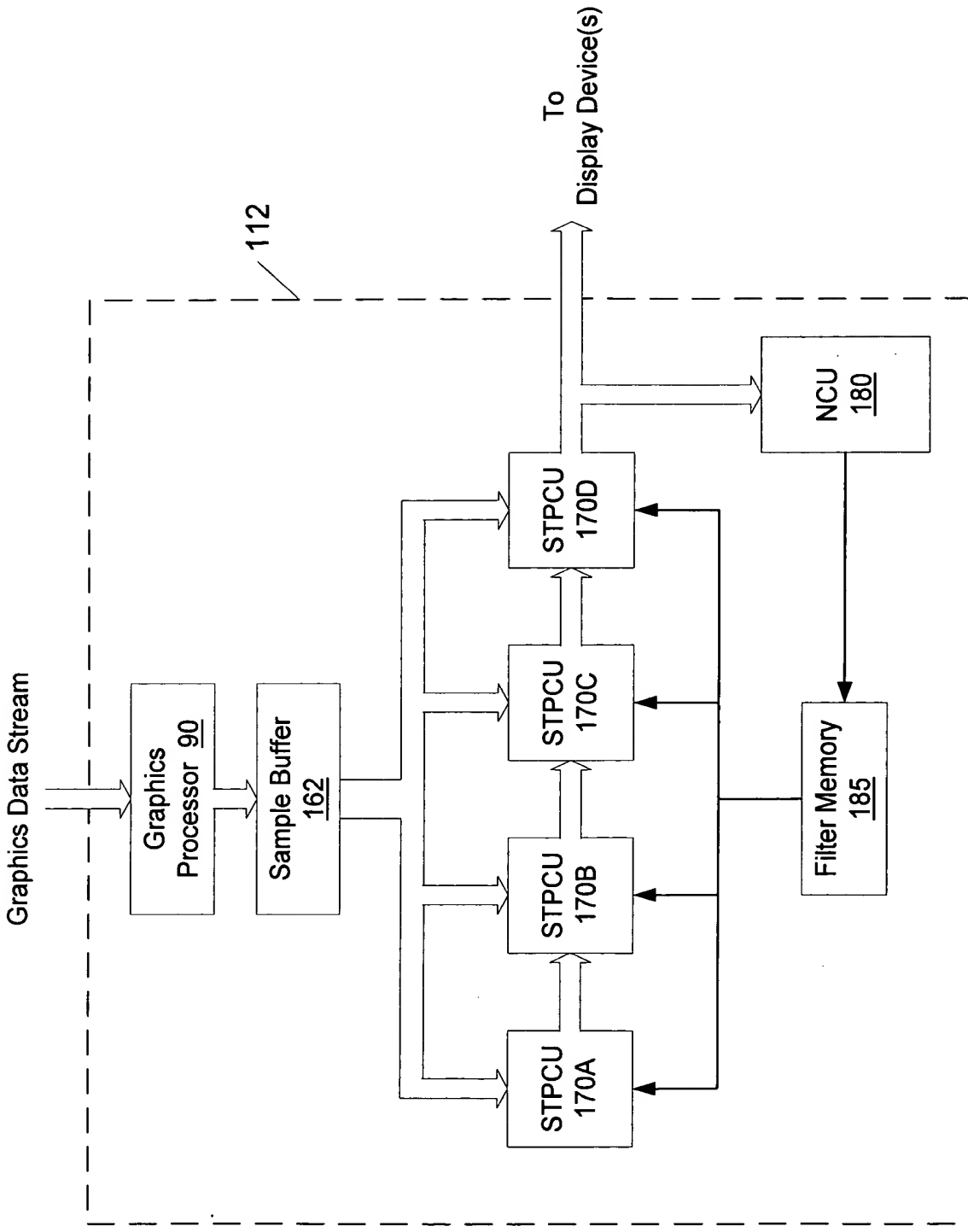


Fig. 25

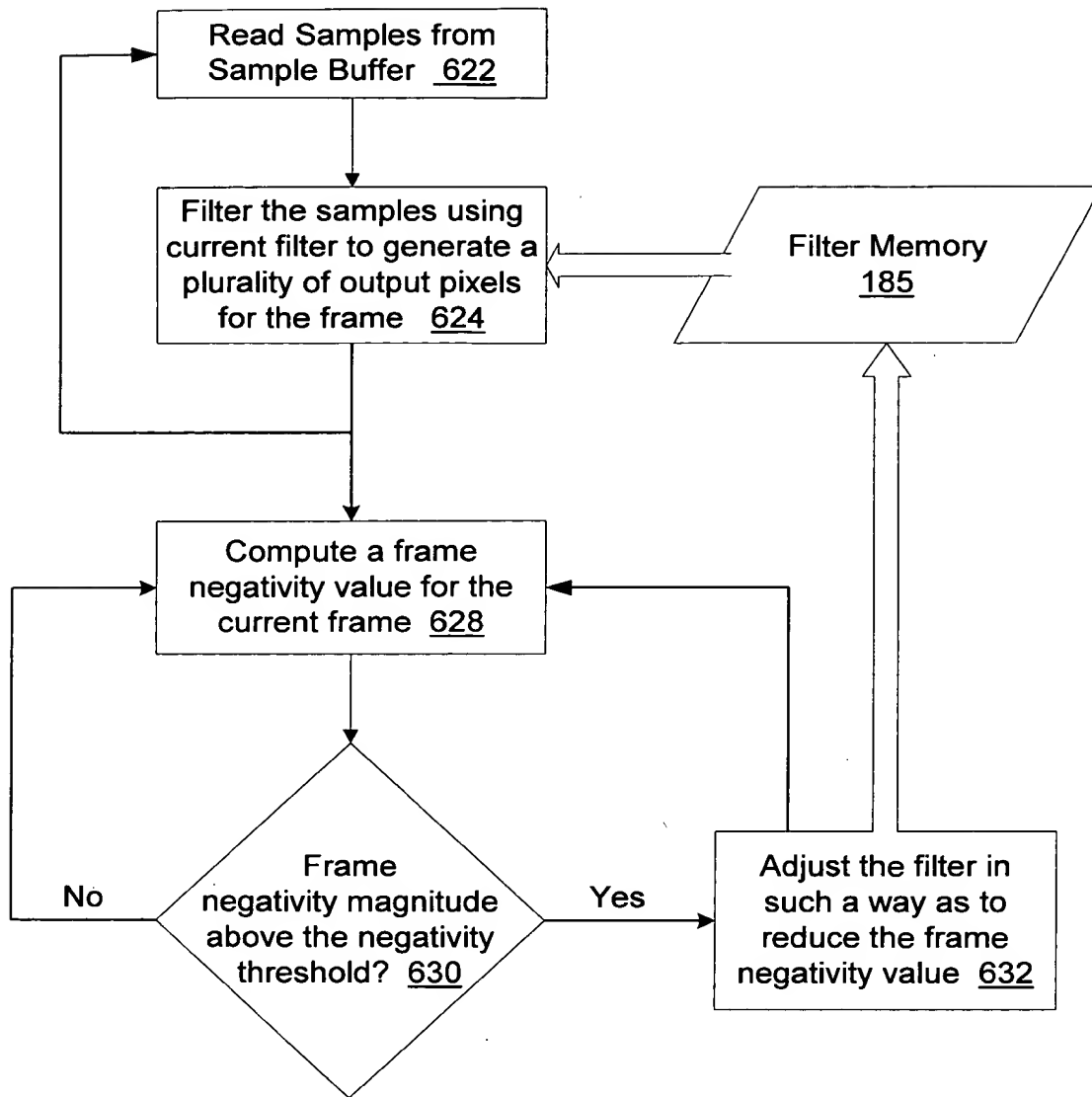


Fig. 26

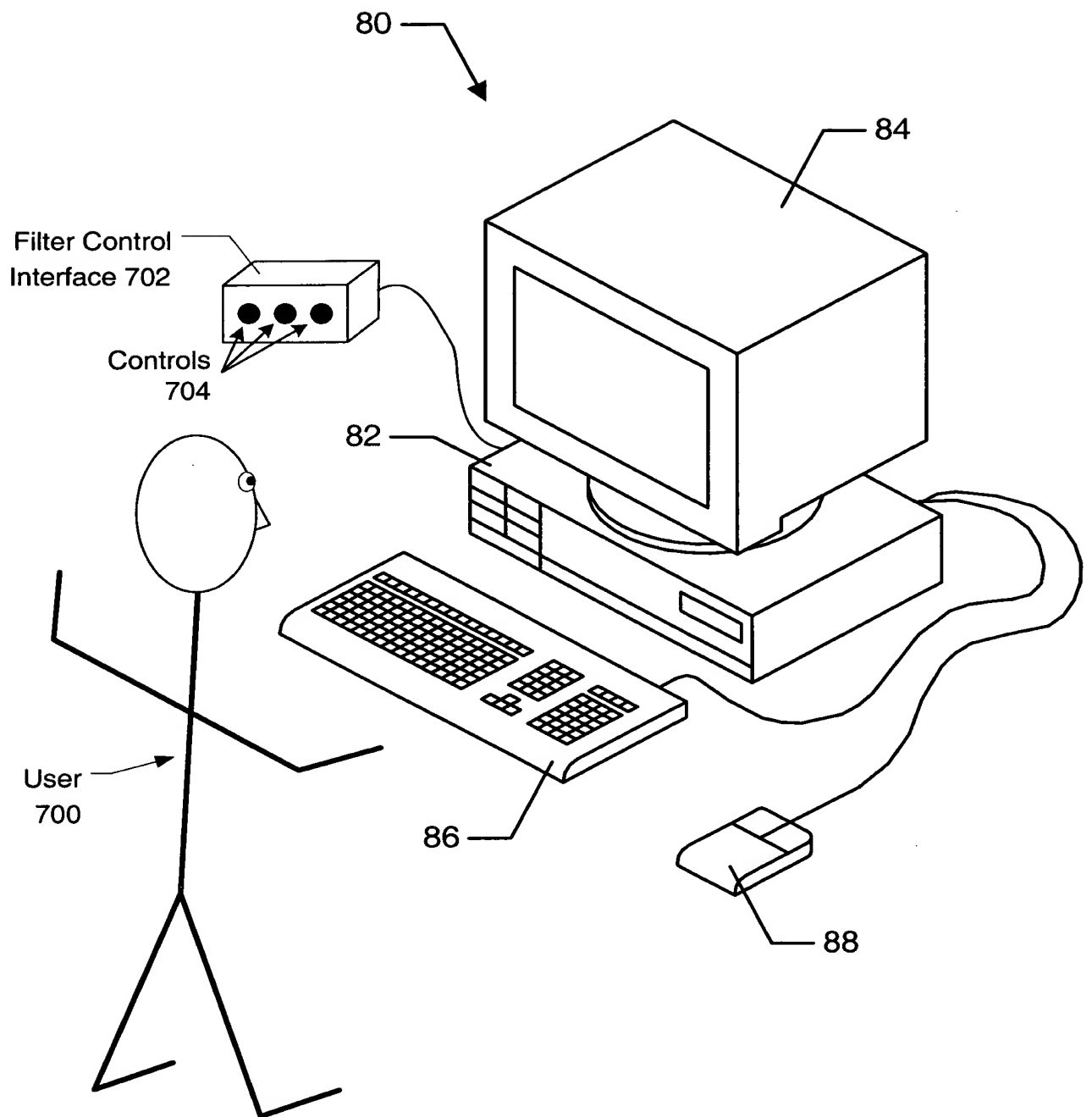


Fig. 27

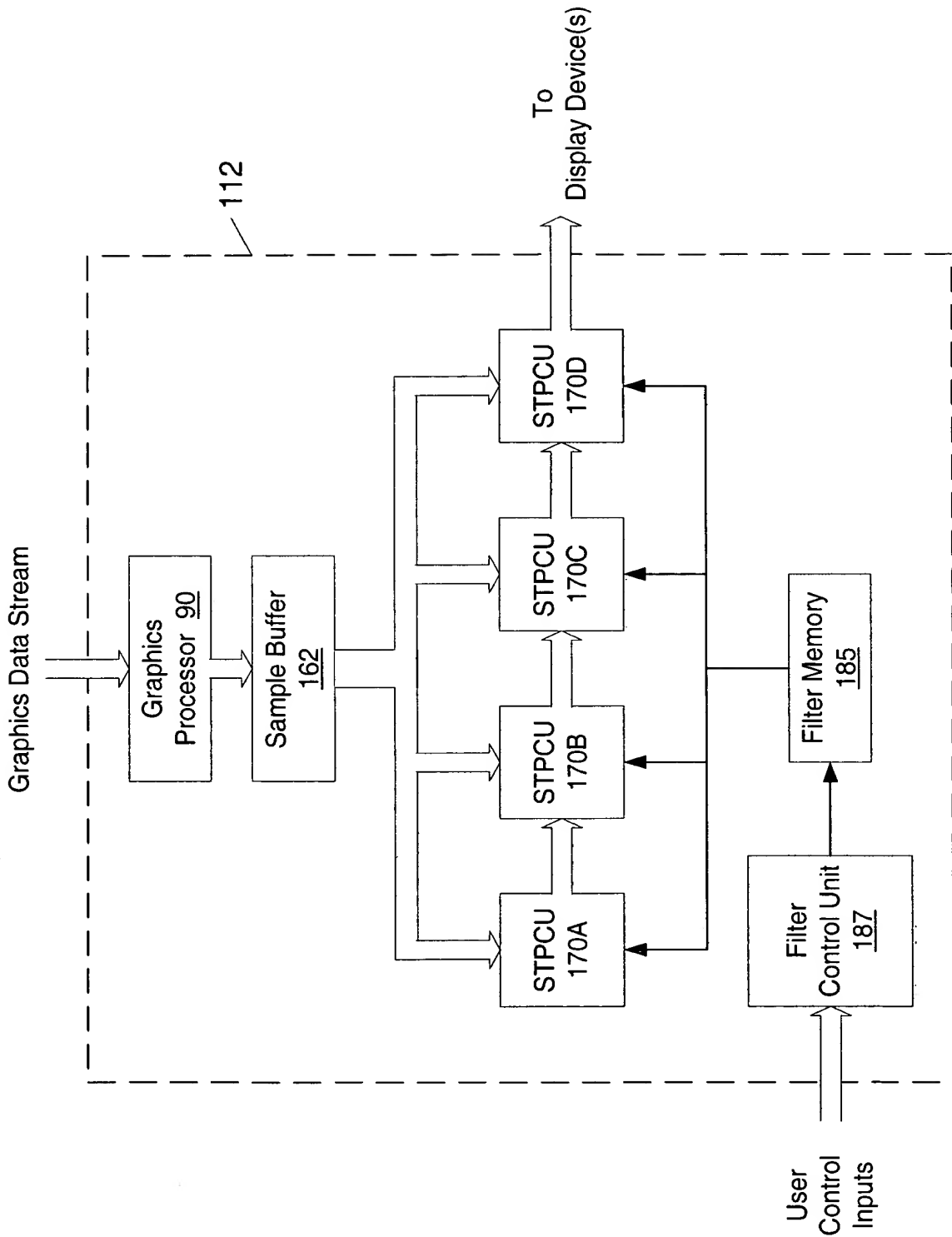


Fig. 28

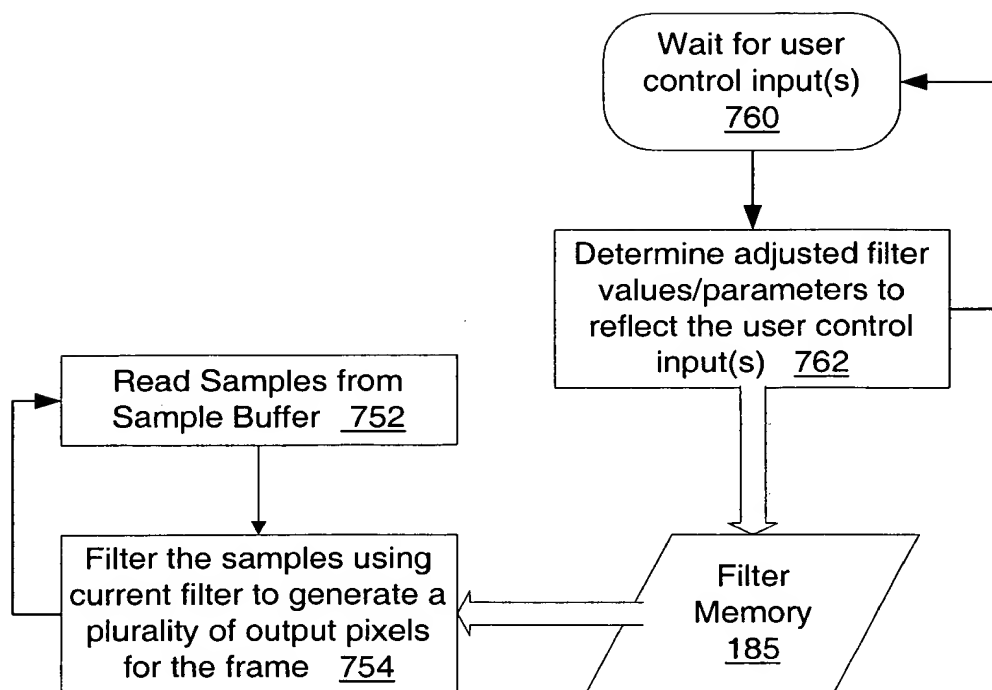


Fig. 29



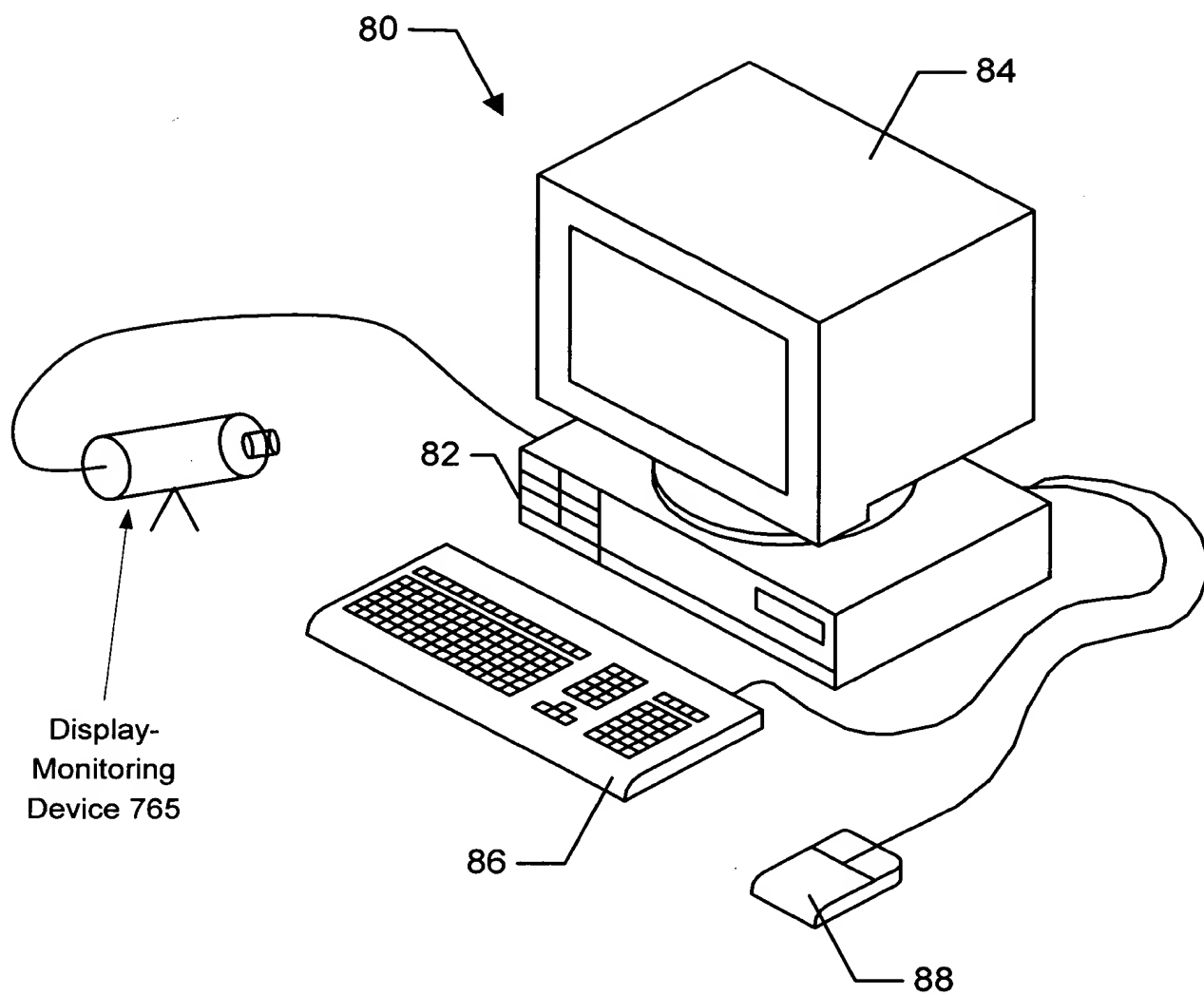


Figure 30

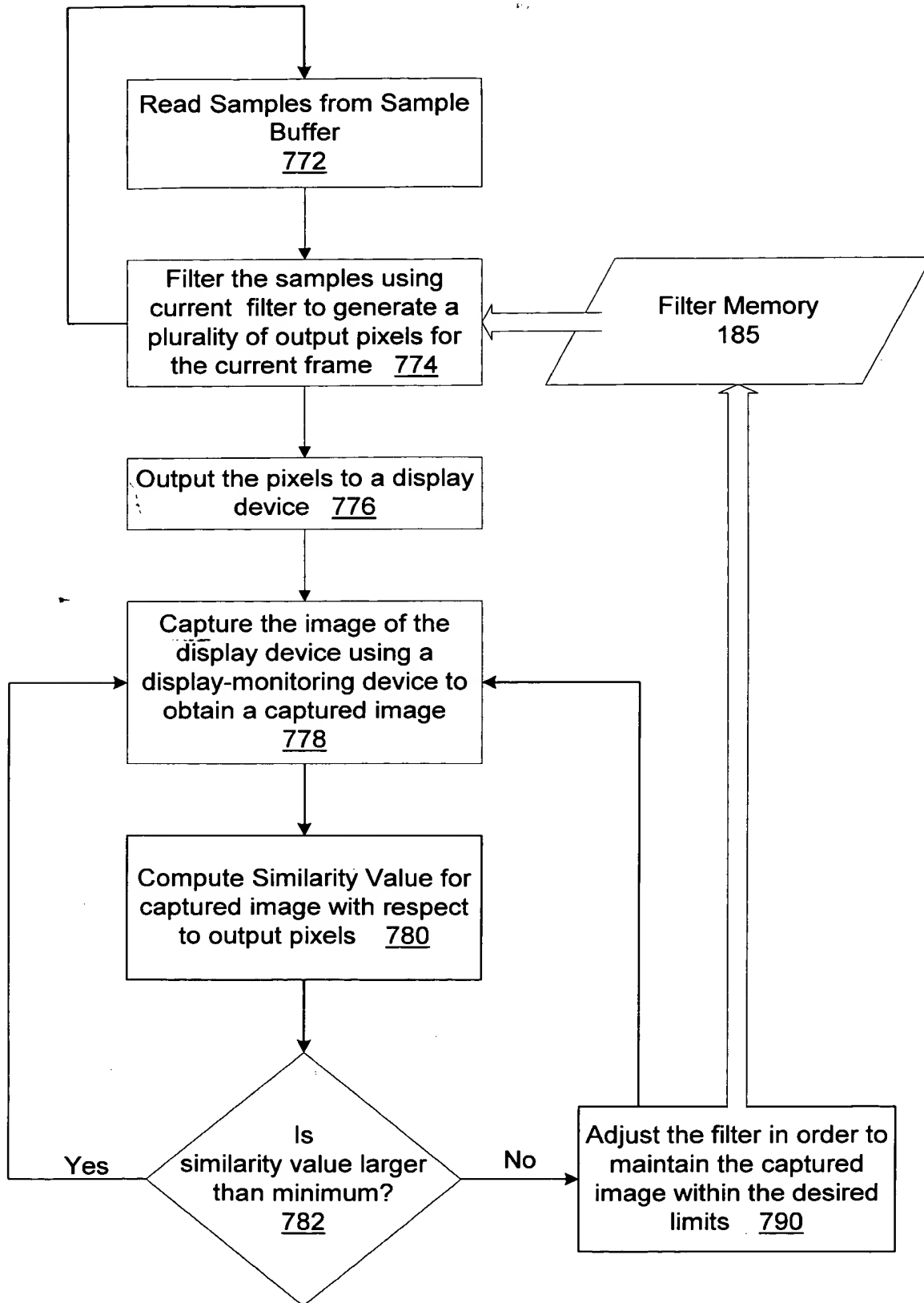


Fig. 31